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**TRANSMITTAL LETTER TO THE UNITED STATES
DESIGNATED/ELECTED OFFICE (DO/EO/US)
CONCERNING A FILING UNDER 35 U.S.C. 371**

U.S. Application No. (if known, see 37 CFR 1.5)

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INTERNATIONAL APPLICATION NO.

PCT/JP00/00388

INTERNATIONAL FILING DATE

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PRIORITY DATE CLAIMED

TITLE OF INVENTION

MOBILE TELEPHONE AND INFORMATION COMMUNICATION METHOD FOR USE THEREIN

APPLICANT(S) FOR DO/EO/US

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SEP 18 2001

Applicant herewith submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information:

1. ☒ This is a **FIRST** submission of items concerning a filing under 35 U.S.C. 371
2. ☐ This is a **SECOND** or **SUBSEQUENT** submission of items concerning a filing under 35 U.S.C. 371.
3. ☒ This express request to begin national examination procedures (35 U.S.C. 371(f)) at any time rather than delay examination until the expiration of the applicable time limit set in 35 U.S.C. 371(b) and PCT Articles 22 and 39(1).
4. ☐ A proper Demand for International Preliminary Examination was made by the 19th month from the earliest claimed priority date.
5. ☒ A copy of the International Application as filed (35 U.S.C. 371(c)(2))
 - a. ☐ is transmitted herewith (required only if not transmitted by the International Bureau).
 - b. ☒ has been transmitted by the International Bureau.
 - c. ☐ is not required, as the application was filed in the United States Receiving Office (RO/US)
6. ☒ A translation of the International Application into English (35 U.S.C. 371(c)(2)).
7. ☒ Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371(c)(3))
 - a. ☐ are transmitted herewith (required only if not transmitted by the International Bureau).
 - b. ☐ have been transmitted by the International Bureau.
 - c. ☐ have not been made; however, the time limit for making such amendments has **NOT** expired.
 - d. ☒ have not been made and will not be made.
8. ☐ A translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371(c)(3)).
9. ☒ An oath or declaration of the inventor(s) (35 U.S.C. 371(c)(4)).
10. ☐ A translation of the annexes to the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371(c)(5)).

ITEMS 11. TO 16. below concern other document(s) or information included:

11. ☒ An Information Disclosure Statement under 37 CFR 1.97 and 1.98.
12. ☒ An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included.
13. ☐ A **FIRST** preliminary amendment.
- ☐ A **SECOND** or **SUBSEQUENT** preliminary amendment.
14. ☐ A substitute specification.
15. ☐ A change of power of attorney and/or address letter.
16. ☒ Other items or information: Courtesy copy of International Application PCT/JP00/00388 w/attached International Search Report in Japanese and English; 4 sheets of drawings; Forms PCT/IB/301 and PCT/IB/308; and 5 cited references

Registration Number

4/12/83

SPECIFICATION

Mobile Telephone
and Information Communication Method for Use Therein

5

Technical Field

The present invention relates generally to mobile telephones and information communication methods for use therein and particularly to mobile telephones allowing an emergency communication in a satellite communication system having a worldwide service area, a cellular system capable of communication between nations using different languages and other similar mobile communication systems and information communication methods for use in such mobile telephones.

15

Background Art

Conventionally, if a user of a mobile communication system has encountered an emergency, the user dials a specific telephone number and then speak to an operator to communicate with the operator and thus provide the operator with information.

20

For example, if a user holding a contract with a Global System for Mobile communication (GSM) network of the United Kingdom goes to Germany and has encountered an emergency there, the user uses a mobile telephone to dial a European standardized emergency number "112," a number commonly used in the GSM network regardless of nation and network provider. The user thus speaks to a German operator to provide the operator with information.

25

Through such a series of operations, the operator has a verbal communication with the user having made an emergency call and thus specifically grasps the emergency that the user is currently facing.

30

If the operator and the user speak different languages and are thus unable to communicate with each other, however, the user may fail to correctly inform the operator of the emergency that the user is currently facing. For example if in the above example the user can only speak

English and the operator cannot understand English, the user's emergency would not be informed accurately.

Such a problem often occurs for example in a satellite communication system having a worldwide service area, a cellular system allowing
5 communications between nations using different languages, and other similar systems.

To overcome such a disadvantage, Japanese Patent Laying-Open No. 10-294807 discloses a mobile communication system transmitting
10 information indicating an occurrence of an emergency without depending on a verbal communication. This mobile communication system uses a mobile telephone provided with an emergency button. When a user of the mobile telephone has encountered an emergency, the user presses the emergency button to make a call and transmits on a network an emergency code indicating that an emergency has occurred. The occurrence of the
15 emergency is thus informed.

The system, however, can only transmit a code indicating that an emergency has occurred. As such, the user is required to make a verbal communication with an operator if the former provides the latter with specific information indicating the user's emergency, such as whether the
20 user needs the police, whether the user needs a fire brigade, the language(s) that the user can speak, the location of the user, and other similar information. As such, if the user and the operator speak different languages and cannot understand each other's language they still would have a similar problem, as described above.

25 Disclosure of the Invention

One object of the present invention therefore is to provide a mobile telephone allowing a user to provide a counterpart with minimal
30 information if the user and the counterpart cannot make a verbal communication therebetween, and an information communication method for use in the mobile telephone.

Another object of the present invention is to provide a mobile telephone allowing a user to be located by a counterpart, and an

information communication method for use in the mobile telephone.

5 Still another object of the present invention is to provide a mobile telephone allowing a counterpart incapable of verbal communication with a user to be rapidly switched to another counterpart capable of speaking a language that the user can understand, and an information communication method for use in the mobile telephone.

10 Still another object of the present invention is to provide a mobile telephone allowing a user to notify a counterpart of the user's current condition if the user and the counterpart cannot make a verbal communication therebetween, and an information communication method for use in the mobile telephone.

15 The present invention in one aspect provides a mobile telephone connected to a network system for mobile communications accommodating a plurality of mobile telephones. The mobile telephone includes: a user information generation block generating user information related to a condition of a user; and a communication block connected to the user information generation block to transmit the user information on the network system for mobile communications.

20 As such, if the user cannot make a verbal communication with a counterpart the user can transmit the user information to provide the counterpart with minimal information.

25 Preferably the mobile telephone further includes a positional-information acquisition block acquiring positional information of the mobile telephone, wherein the user information generation block is connected to the positional-information acquisition block to provide the positional information of the mobile telephone as the user information.

The user can transmit the positional information of the mobile telephone as the user information. Thus for example if the user is in distress, the counterpart can determine the location of the user.

30 Still preferably the mobile telephone also includes a language setting block used by the user to previously set information related to a language that the user can understand, wherein the user information generation block is connected to the language setting block to provide as the user

information the information related to the language that the user can understand.

The user can transmit as the user information a language that the user can understand. As such, if the user cannot make a verbal
5 communication with a counterpart, the user information can be referred to to have the counterpart rapidly switched to a different counterpart who can speak the language that the user can understand.

Still preferably the mobile telephone also includes a condition entry block used by the user to input a code defining a condition of the user,
10 wherein the user information generation block is connected to the condition entry block to provide as the user information the code defining the condition of the user.

The user can transmit to a counterpart a code defining a condition of the user. As such, if the user cannot make a verbal communication with
15 the counterpart, the user can notify the counterpart of the user's current condition.

The present invention in another aspect provides a method of communicating information for use in a mobile telephone connected to a network system for mobile communications accommodating a plurality of
20 mobile telephones. The present method includes the steps of: generating user information related to a condition of a user; and transmitting the user information on the network for mobile communications.

As such, if the user cannot make a verbal communication with a counterpart, the user can transmit the user information to provide the
25 counterpart with minimal information.

Brief Description of the Drawings

Fig. 1 is a block diagram showing a configuration of a mobile telephone in an embodiment of the present invention;

30 Fig. 2 shows a configuration of user information in an embodiment of the present invention;

Fig. 3 illustrates items of emergency information in an embodiment of the present invention; and

Fig. 4 represents a sequence in a mobile communication system in an embodiment of the present invention, starting with an emergency call establishment request and ending with an establishment of a communication.

5

Best Mode for Carrying Out the Invention

Fig. 1 shows a mobile telephone 20 for use in a mobile communication system in an embodiment of the present invention. Mobile telephone 20 includes a block 22 communicating a signal with a network, a block 30 connected to block 22 to acquire from a signal transmitted from the network the information related to the location of a user 60 (i.e., the information related to the location of mobile telephone 20), a memory 28 connected to block 30 to store the information of the current location of mobile telephone 20, and a block 26 connected to memory 28 to read therefrom the information of the current location of mobile telephone 20.

Mobile telephone 20 also includes a block 36 used by the user to previously set information related to a language that the user can understand, a memory 34 formed for example of nonvolatile memory and connected to block 36 to store the language information set via block 36, and a block 32 connected to memory 34 to read the language information therefrom.

Mobile telephone 20 also includes a block 38 used by the user to input thereto a code defining an item of emergency, and a block 24 connected to blocks 26, 32, 38 and 22 to generate the user information described hereinafter and add the user information to a signal to be transmitted from block 22.

Mobile telephone 20 is connected to a single network system for mobile communications accommodating a plurality of mobile telephones. Or it is connected to the network system for mobile communications that is included in a plurality of interconnected network systems for mobile communications and it is thus connected to the mutually accessible network systems for mobile communications.

With reference to Fig. 2, user information 40 generated at block 24 is

configured of information 42 of the location of the mobile telephone,
information 44 of a language that the user can understand, information 46
corresponding to a code defining an item of emergency, and reserved
information 48 of other user information. These information are merely
5 illustrative and user information 40 may include items of other information
previously defined between the mobile telephone and an operator.

Reference will now be made to Fig. 3 to describe items of the Fig. 2
emergency information 46. Emergency information 46 corresponds to
emergency identifications (emergency IDs) shown in Fig. 3. For example,
10 an emergency ID 01 represents that the user has got lost in the mountains.
An emergency ID 07 represents that the user is injured.

Reference will now be made to Fig. 4 to describe by way of example a
sequence provided to establish an emergency call in the Global System for
Mobile Communications (GSM) system, a cellular system standardized by
15 the European Telecommunications Standards Institute (ETSI) and adopted
in European countries. Fig. 4 represents a sequence based on the contents
described in a recommendation of the ETSI "Digital cellular
telecommunications system (Phase 2); Mobile radio interface layer 3
specification (GSM 04.08)," ETS 300 557, May 1996, Fourth Edition.

20 For example, if user 60 holding a contract with a GSM network of the
United Kingdom goes to Germany and has encountered an emergency, user
60 uses mobile telephone 20 to dial a European standardized emergency
number "112," a number commonly used in the GSM network regardless of
nation and network provider, to issue an emergency call-out request 62.

25 Mobile telephone 20 receives emergency call-out request 62 from user
60 transmits an access request signal 64 to a GSM network 82 of Germany.
GSM network 82 receives access request signal 64 and transmits an access
request response signal 66 to mobile telephone 20.

30 Before mobile telephone 20 transmits an emergency call-out request
signal 68, described hereinafter, block 24 generates user information 40.
Mobile telephone 20 receives an access request response signal 66.
According to a parameter included in access request response signal 66,
mobile telephone 20 transmits user information 40 together with

emergency call-out request signal 68 to GSM network 82 of Germany.

GSM network 82 transmits to mobile telephone 20 a signal 70 indicating that a call-in and call-out processing is now proceeding.

5 Thereafter between mobile telephone 20 and network 82 a communication channel switches and a synchronization establishment process is provided to make a transition to a synchronization establishment state 72.

10 When synchronization has been established between mobile telephone 20 and GSM network 82, GSM network 82 transmits a call-in signal 84 together with user information 40 to operator 88 dealing with emergencies. Simultaneously, GSM network 82 transmits to mobile telephone 20 a signal 74 indicating that the receiving side, i.e., operator 88 is being called.

15 The operator receives user information 40 and call-in signal 84 and transmits to GSM network 82 a call-in response signal 86 indicating that the information and the signal have been received.

GSM network 82 receives call-in response signal 86 and transmits to mobile telephone 20 a signal 76 indicating that the receiving side (operator 88) has received user information 40 and call-in signal 84.

20 Mobile phone 20 receives signal 76 and transmits to GSM network 82 a receiving-side response acknowledgement signal 78. After such a series of operation as above is provided, there is made between the user and the operator a transition to a communication allowing state 80.

25 If user 60 can only speak English and operator 88 cannot understand English, the user's verbal message such as "help! I'm in distress!" cannot be understood by operator 88. In contrast, if user information 40 includes emergency information 46 with emergency ID "01" set and it also includes positional information 42 with the currently user's location set, operator 88, incapable of understanding the language that the user speaks, can
30 understand that the user is in distress in the mountains and also be informed of the location of the user in distress.

Furthermore, if user information 40 includes language information 44 having set a language that user 60 can understand, the user can have

the operator rapidly switched to another operator who can speak the language.

Thus in the present invention if user 60 and operator 88 cannot make a verbal communication with each other, user 60 can transmit minimal information of the user's emergency situation.

Note that while user information 40 is added to emergency call-out request signal 68 to be transmitted from mobile telephone 20 to network 82, it may be added for example to access request signal 64 or any other similar signal that is transmitted from mobile telephone 20 to network 82.

Furthermore, once communication state 80 has been established, on an audio channel thereof a previously defined rule may be followed to transmit contents of user information 40 in the form of a Morse code using a dual-tone multifrequency (DTMF) signal. Furthermore, user information 40 may be decimalized and transmitted in a DTMF signal.

Industrial Applicability

Thus the present mobile communication system is useful in informing an operator of an occurrence of an emergency if any verbal communication cannot be made with the operator. The present system is particularly useful for satellite communication systems having a worldwide service area and cellular systems capable of communication between nations using different languages.

CLAIMS

1. A mobile telephone (20) connected to a network system for mobile communications accommodating a plurality of mobile telephones,
5 comprising:

a user information generation block (24) generating user information (40) related to a condition of a user; and

a communication block (22) connected to said user information generation block (24) to transmit said user information (40) on the network
10 system for mobile communications.

2. The mobile telephone according to claim 1, further comprising a positional-information acquisition block (30) acquiring positional information of said mobile telephone (20), wherein said user information
15 generation block (24) is connected to said positional-information acquisition block (30) to provide said positional information of said mobile telephone (20) as said user information (40).

3. The mobile telephone according to claim 2, further comprising a language setting block (36) used by the user to previously set information related to a language that the user can understand, wherein said user
20 information generation block (24) is connected to said language setting block (36) to add to said user information (40) said information related to the language that the user can understand.

4. The mobile telephone according to claim 3, further comprising a condition entry block (38) used by the user to input a code defining a condition of the user, wherein said user information generation block (24) is
25 connected to said condition entry block (38) to add to said user information (40) said code defining the condition of the user.

5. The mobile telephone according to claim 2, further comprising a condition entry block (38) used by the user to input a code defining a

condition of the user, wherein said user information generation block (24) is connected to said condition entry block (38) to add to said user information (40) said code defining the condition of the user.

5

6. The mobile telephone according to claim 1, further comprising a language setting block (36) used by the user to previously set information related to a language that the user can understand, wherein said user information generation block (24) is connected to said language setting block (36) to add to said user information (40) said information related to the language that the user can understand.

10

7. The mobile telephone according to claim 6, further comprising a condition entry block (38) used by the user to input a code defining a condition of the user, wherein said user information generation block (24) is connected to said condition entry block (38) to add to said user information (40) said code defining the condition of the user.

15

8. The mobile telephone according to claim 1, further comprising a condition entry block (38) used by the user to input a code defining a condition of the user, wherein said user information generation block (24) is connected to said condition entry block (38) to add to said user information (40) said code defining the condition of the user.

20

9. A method of communicating information, for use in a mobile telephone (20) connected to a network system for mobile communications accommodating a plurality of mobile telephones, comprising the steps of: generating user information (40) related to a condition of a user; and transmitting said user information on the network for mobile communications.

25

30

10. The method according to claim 9, wherein the step of generating said user information (40) includes the steps of:

acquiring positional information of said mobile telephone (20); and
providing said positional information of said mobile telephone (20) as
said user information (40).

5 11. The method according to claim 10, wherein the step of
generating said user information (40) further includes the steps of:
 previously setting information related to a language that the user
can understand; and
 adding to said user information said information related to the
10 language that the user can understand.

 12. The method according to claim 11, wherein the step of
generating said user information (40) further includes the steps of:
 inputting a code defining a condition of the user; and
15 adding to said user information said code defining the condition of
the user.

 13. The method according to claim 10, wherein the step of
generating said user information (40) further includes the steps of:
20 inputting a code defining a condition of the user; and
 adding to said user information said code defining the condition of
the user.

 14. The method according to claim 9, wherein the step of generating
25 said user information (40) further includes the steps of:
 previously setting information related to a language that the user
can understand; and
 providing as said user information said information related to the
language that the user can understand.

30 15. The method according to claim 14, wherein the step of
generating said user information (40) further includes the steps of:
 inputting a code defining a condition of the user; and

adding to said user information said code defining the condition of the user.

- 5 16. The method according to claim 9, wherein the step of generating said user information (40) further includes the steps of:
- inputting a code defining a condition of the user; and
 - providing as said user information said code defining the condition of the user.

FIG. 1

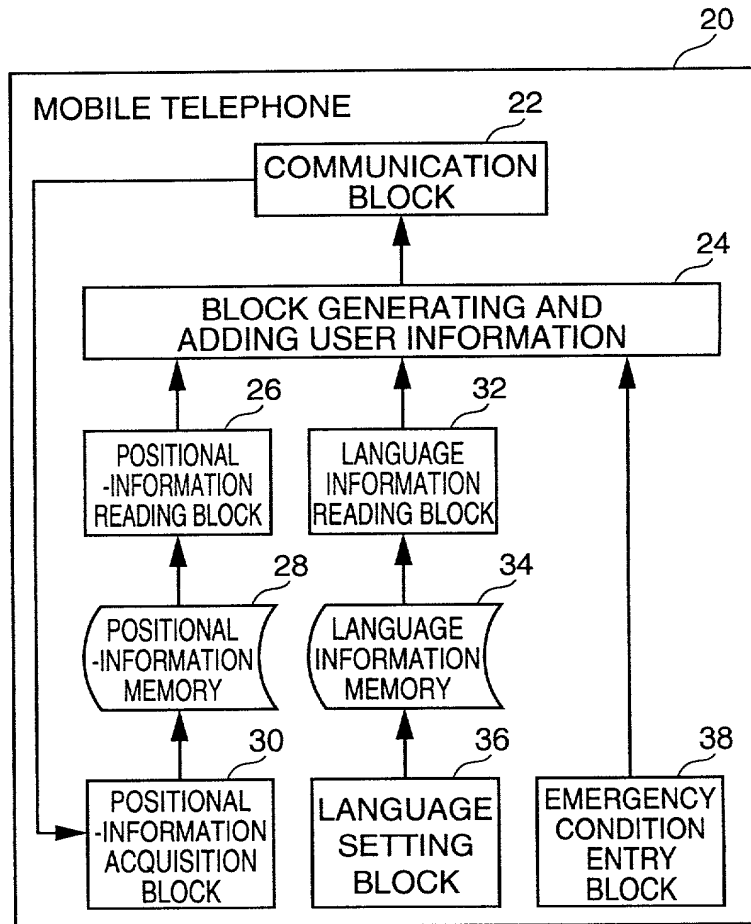


FIG. 2

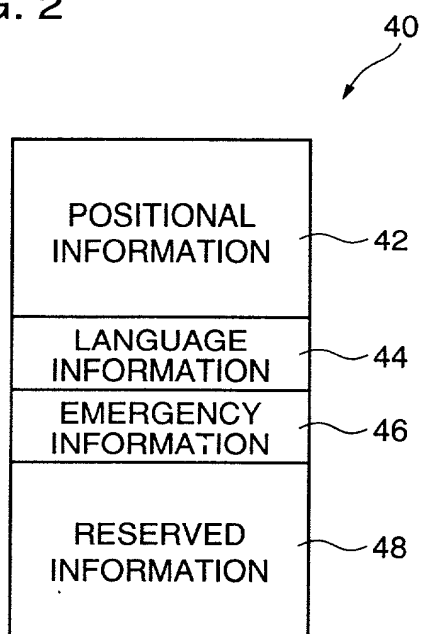
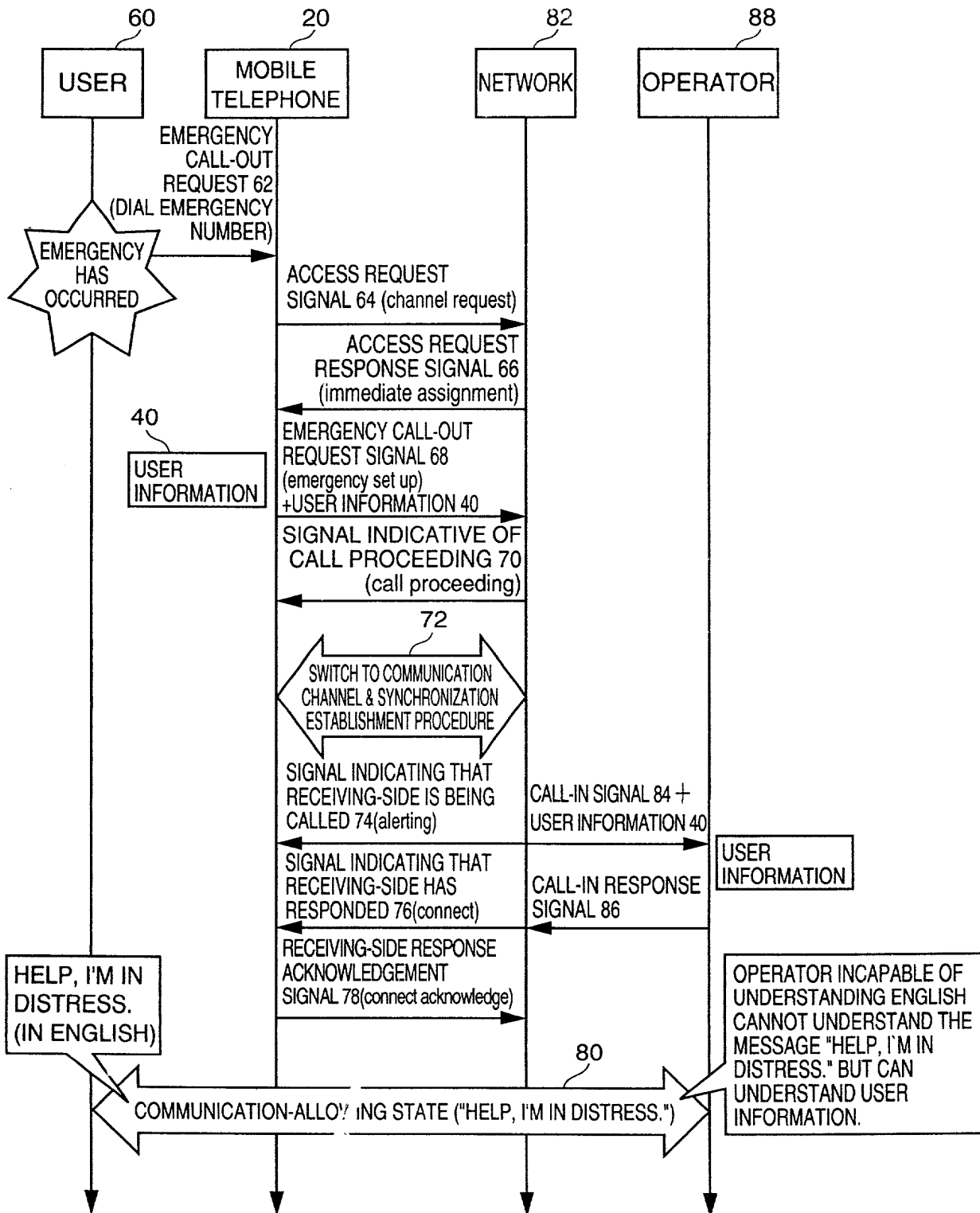


FIG. 3

52 EMERGENCY CONDITION ID	ITEMS OF EMERGENCYCONDITION 54
01	IN DISTRESS (MOUNTAIN)
02	IN DISTRESS (SEA)
03	IN DISTRESS (OTHERS)
04	FIRE
05	ACCIDENT
06	CONCERN
07	INJURY
08	DISEASE
09	OTHERS

FIG. 4



Declaration and Power of Attorney For Patent Application

特許出願宣言書

Japanese Language Declaration

私は、下欄に氏名を記載した発明者として、以下のとおり宣言する：

私の住所、郵便の宛先および国籍は、下欄に氏名に続いて記載したとおりであり、

名称の発明に関し、請求の範囲に記載した特許を求める主題の本来の、最初にして唯一の発明者である（一人の氏名のみが下欄に記載されている場合）か、もしくは本来の、最初にして共同の発明者である（複数の氏名が下欄に記載されている場合）と信じ、

As a below named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below next to my name,

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled

MOBILE TELEPHONE AND INFORMATION

COMMUNICATION METHOD FOR USE THEREIN

その明細書を
(該当する方に印を付す)

☐ ここに添付する。

☐ _____ 日に出願番号

第 _____ 号として提出し、

_____ 日に補正した。

(該当する場合)

the specification of which

(check one)

☒ is attached hereto.

☒ was filed on January 26, 2000 as

Application Serial No. PCT/JP00/00388

and was amended on _____
(if applicable)

私は、前記のとおり補正した請求の範囲を含む前記明細書の内容を検討し、理解したことを陳述する。

私は、連邦規則法典第37部第1章第56条(a)項に従い、本願の審査に所要の情報を開示すべき義務を有することを認める。

I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose information which is material to the examination of this application in accordance with Title 37, Code of Federal Regulations, §1.56(a).

Japanese Language Declaration

私は、合衆国法典第35部第119条にもとづく下記の外国特許出願または発明者証出願の外国優先権利益を主張し、さらに優先権の主張に係わる基礎出願の出願日前の出願日を有する外国特許出願または発明者証出願を以下に明記する：

Prior foreign applications

先の外国出願

(Number) (番号)	(Country) (国名)	(Day/Month/Year Filed) (出願の年月日)
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(Number) (番号)	(Country) (国名)	(Day/Month/Year Filed) (出願の年月日)

Priority claimed

優先権の主張

<input type="checkbox"/> Yes あり	<input type="checkbox"/> No なし
<input type="checkbox"/> Yes あり	<input type="checkbox"/> No なし
<input type="checkbox"/> Yes あり	<input type="checkbox"/> No なし

私は、合衆国法典第35部第120条にもとづく下記の合衆国特許出願の利益を主張し、本願の請求の範囲各項に記載の主題が合衆国法典第35部第112条第1項に規定の態様で先の合衆国出願に開示されていない限度において、先の出願の出願日と本願の国内出願日またはPCT国際出願日の間に公表された連邦規則法典第37部第1章第56条(a)項に記載の所要の情報を開示すべき義務を有することを認める：

I hereby claim the benefit under Title 35, United States Code, §120 of any United States application(s) listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States application in the manner provided by the first paragraph of Title 35, United States Code, §112, I acknowledge the duty to disclose material information as defined in Title 37, Code of Federal Regulations, §1.56(a) which occurred between the filing date of the prior application and the national or PCT international filing date of this application:

(Application Serial No.)
(出願番号)

(Filing Date)
(出願日)

(現況)
(特許済み、係属中、放棄済み)

(Status)
(patented, pending, abandoned)

(Application Serial No.)
(出願番号)

(Filing Date)
(出願日)

(現況)
(特許済み、係属中、放棄済み)

(Status)
(patented, pending, abandoned)

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I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Japanese Language Declaration

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(代理人氏名および登録番号を明記のこと)

POWER OF ATTORNEY: As a named inventor, I hereby appoint the following attorney(s) and/or agent(s) to prosecute this application and transact all business in the Patent and Trademark Office connected therewith. (list name and registration number)

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Direct Telephone Calls to: (name and telephone number)

唯一のまたは第一の発明者の氏名	Full name of sole or first inventor <u>Makoto MURATA</u>	
同発明者の署名	Inventor's signature <u>Makoto Murata</u>	Date <u>May 14, 2001</u>
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第2の共同発明者の氏名 (該当する場合)	Full name of second joint inventor, if any	
同第2発明者の署名	Second Inventor's signature	Date
住所	Residence	
国籍	Citizenship	
郵便の宛先	Post Office Address	

(第六またはそれ以降の共同発明者に対しても同様な情報および署名を提供すること。)

(Supply similar information and signature for third and subsequent joint inventors.)